



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

432-1530

Date of Issuance:

10/9/15

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

12ESP703 SC Insecticide

Name and Address of Registrant (include ZIP Code):

Terrie Moore
Bayer Environmental Science
A Division of Bayer CropScience
2 T. W. Alexander Drive
Research Triangle Park, NC 27709

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Mark Suarez
Product Manager 07, Invertebrate & Vertebrate Branch 3
Registration Division (7505P), Office of Pesticide Programs

Date:

10/9/15

2. You are required to comply with the data requirements described in the DCI or EDSP Order identified below:
 - a. Imidacloprid GDCI-129099-0951
 - b. Imidacloprid EDSP-129099-0184

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI or EDSP Order listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division:

http://www.epa.gov/oppsrrd1/contacts_prd.htm

3. This registration notice removes the expiration date for this product. However, this remains a conditional registration, because one of the source products has outstanding data per the data call-in orders listed above.
4. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are still outstanding. A one year study is required to satisfy these data requirements. You have 18 months from the date of original registration (Nov. 12, 2014) to provide these data.
5. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated Basic CSF dated 4/11/2013

If you have any questions, please contact Rita Kumar by phone at (703) 308-8291 or via email at kumar.rita@epa.gov.

Enclosure: Stamped label

GROUP

4A

23

INSECTICIDE

12ESP703 SC INSECTICIDE

ABN: Merit Complete; Merit Plus; Merit 360; Merit Revolution; Merit CIC; Merit Total Care

- For foliar and systemic control of listed insects in turfgrass. For use on golf courses and sod farms only. Do not use on residential sites (i.e., in, on, or around any structure, vehicle, article, surface, or area associated with the household, including but not limited to areas such as non-agricultural outbuildings, non-commercial greenhouses, pleasure boats, and recreational vehicles, or in any preschool or day care facility).
- Controls billbugs
- Controls grubs
- Controls listed surface pests and below ground pests
- Controls Pyrethroid-resistant chinch bugs
- Insecticide
- Suspension concentrate
- SC

[Blissus spp; chinch bugs Image]

[Sphenophorus spp.; billbugs Image]

Editorial Note – [Bracketed text] is optional language

ACTIVE INGREDIENT:

Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine 21.4%

Spirotetramat: *cis*-3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4,5]dec-3-en-4-yl-ethyl carbonate 8.6%

OTHER INGREDIENTS: 70.0%

TOTAL: 100.0%

Contains 2.0 pounds of imidacloprid per gallon.

SHAKE WELL BEFORE USING

Contains 0.8 pounds of spirotetramat per gallon.

EPA Reg. No. 432-1530

EPA Est. No. _____

STOP - Read the label before use.
Keep out of reach of children.

CAUTION

For MEDICAL and TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577
For PRODUCT USE Information Call 1-800-331-2867

FIRST AID

If on skin:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-334-7577 for emergency medical treatment information.

Note To Physician: No specific antidote is available. Treat the patient symptomatically.

ACCEPTED

10/09/2015

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No.

432-1530

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if absorbed through skin. Harmful if swallowed. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using toilet. Wear long-sleeved shirt and long pants, socks, shoes, and chemical resistant gloves (such as Natural Rubber, Selection Category A). Remove and wash contaminated clothing before reuse. Wear: Long-sleeved shirt and long pants, socks, shoes, and chemical resistant gloves (such as Natural Rubber, Selection Category A).

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE):

WPS USES: Applicators and Other Handlers who handle this product for any use covered by the Worker Protection Standard (40 CFR part 170) – in general, agricultural plant uses e.g., use in sod farms, must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.
- Shoes plus socks

Follow manufacturer's instructions for cleaning/ maintaining personal protective equipment, PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Non-WPS USES: Applicators and other handlers who handle this product for any use NOT covered by the Worker Protection Standard (40 CFR part 170) – in general, only agricultural plant uses are covered by the WPS, must wear:

- Shirt and pants
- Chemical resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.
- Shoes plus socks

Engineering controls statements:

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

- User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is highly toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment or to residues on crops/plants or weeds in bloom. Do not apply this product or allow it to drift to crops or weeds in bloom if bees are foraging the treatment area.

This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow. May result in groundwater contamination.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

12ESP703 SC INSECTICIDE is a suspension concentrate and can be used as directed on turfgrass on golf courses and sod farms.

RESISTANCE MANAGEMENT RECOMMENDATIONS

Some insects are known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area. 12ESP703 SC INSECTICIDE contains Group 23 and 4A insecticides. Insect biotypes with acquired or inherent resistance to Group 23 and 4A insecticides may eventually dominate the insect population if Group 23 and 4A insecticides are used repeatedly as the predominant method of control for targeted species. If you experience difficulty with control and suspect that resistance is a reasonable cause, immediately consult your local company representative or pest management advisor for the best alternative method of control for your area.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

Exception: If the product is applied by drenching, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep children and pets off treated areas until sprays have dried.

APPLICATION TO TURFGRASS

12ESP703 SC INSECTICIDE can be used for the control of soil or surface inhabiting pests of turfgrass, such as Northern & Southern masked chafers, *Cyclocephala borealis*, *C. immaculata*, and/or *C. lurida*; Asiatic garden beetle, *Maladera castanea*; European chafer, *Rhizotrogus majalis* (formerly *Amphimallon majalis*); Green June beetle, *Cotinis nitida*; May or June beetle, *Phyllophaga* spp.; Japanese beetle, *Popillia japonica*; Oriental beetle, *Anomala orientalis*; Billbugs, *Sphenophorus* spp.; Black turfgrass ataenius, *Ataenius spretulus*; European Crane Fly, *Tipula paludosa*; Common crane fly, *Tipula oleracea*; Chinch bugs, *Blissus* spp.; Mole crickets, *Scapteriscus* spp.; and *Neocurtilla hexadactyla*, Clover mites, *Bryobia praetiosa*; Greenbug, *Schizaphis graminum*; Ground pearls, *Eumargarodes laingi*, and *Dimargarodes meridionalis*; turfgrass mealybugs, including rhodegrass mealybug, *Antonina graminum*, and buffalograss mealybug, *Tridiscus sporoboli*; scale insects, including cottony grass scale, *Eriopeltis festucae*; turfgrass scale, *Lecanopsis formicarum*; Bermudagrass scale, *Odonaspis ruthae*, and *Duplachionaspis divergens*; and twolined spittlebug, *Prosapia bicincta*.

The active ingredients in this product have sufficient residual activity so that applications can be made preceding the egg laying activity of the target pests. High levels of control can be achieved when applications are made preceding or during the egg laying period. The need for an application can be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. Optimum control will be achieved when applications are made prior to egg hatch of the target pests, followed by sufficient irrigation or rainfall to move the active ingredient through the thatch.

Do not apply when turfgrass areas are waterlogged or the soil is saturated with water. Adequate distribution of the active ingredient cannot be achieved when these conditions exist. The treated turf area must be in such a condition that the rainfall or irrigation will penetrate vertically in the soil profile.

APPLICATION EQUIPMENT FOR USE ON TURFGRASS

Apply 12ESP703 SC INSECTICIDE by ground application only in sufficient water to provide adequate distribution in the treated area. The use of accurately calibrated equipment normally used for the application of turfgrass insecticides is required. Use equipment that will produce a uniform, coarse droplet spray, using a low-pressure setting to eliminate off target drift. Check calibration periodically to ensure that equipment is working properly.

CROP	PEST		APPLICATION RATE
Turf Grasses (Golf Courses and Sod Farms Only)	Larvae of:	European Crane Fly	12.8 – 25.6 fl oz per acre or 0.3 to 0.6 fl oz (8.8 to 17.6 mL) per 1000 sq ft
	Asiatic garden beetle	Green June beetle	
	Billbug	Japanese beetle	
	Black turfgrass ataenius	Northern masked chafer	
	Cutworms (suppression)	Oriental beetle	
	European chafer	<i>Phyllophaga</i> spp.	
		Southern masked chafer	
	Larvae or adults of:		
	Chinch bugs		
	Ground Pearls		
	Mealybugs		
	Scale insects		
	Twolined spittlebug		
For optimum control of grubs, billbugs, and European Crane Fly make application prior to egg hatch of the target pest.			
Repeat applications, as necessary, up to two times per year but not to exceed a total of 25.6 fl oz 12ESP703 SC INSECTICIDE (0.4 lb of imidacloprid and 0.16 lb of spirotetramat) per acre per year.			
Be sure to read "APPLICATION EQUIPMENT" Section of this label.			
Mole crickets		25.6 fl oz per acre or 0.6 fl oz (17.6 mL) per 1000 sq ft	
For control of mole crickets make application prior to or during the peak egg hatch period. If application is not made prior to egg hatch or when adults or large nymphs are present and actively tunneling, apply 12ESP703 SC INSECTICIDE in combination with a remedial insecticide to minimize damage to turf.			
Follow label instructions for other insecticides when tank-mixing.			

Consult your local turf, state Agricultural Experiment Station, or State Extension Service Specialists for more specific information regarding timing of application.

NOTE: For optimum control, if rainfall does not occur within 24 hours after application, irrigate to move the active ingredient through the thatch.

RESTRICTIONS:

- Do not apply more than 25.6 fl oz of 12ESP703 SC INSECTICIDE (0.4 lb of imidacloprid + 0.16 lb of spirotetramat) per acre per year.
- Do not allow this product to contact plants in bloom while bees are foraging the treatment area.
- Do not allow runoff or puddling of irrigation water following application.
- Do not apply 12ESP703 SC INSECTICIDE to areas that are water logged or saturated, it will not allow penetration into the root zone of the plant.
- Do not apply through any irrigation system.
- Ground application only, do not apply by air.
- Not for residential use.

On Golf Courses

- Do not mow turf or lawn area until after sufficient irrigation or rainfall has occurred so that uniformity of application will not be affected.
- Do not graze treated areas or use clippings from treated areas for feed or forage.
- Keep children and pets off treated area until dry.

On Sod Farms

- Do not use for seed production

TURF APPLICATION DILUTION CHART

APPLICATION VOLUME (GALLONS PER 1,000 SQUARE FEET)	TURF APPLICATION RATES			FLUID OUNCES OF 12ESP703 SC INSECTICIDE DILUTED TO THESE VOLUMES OF FINISHED SPRAY			
	PRODUCT PER ACRE	PRODUCT PER 1,000 SQ. FT.	LB AI/A	1 GALLON	5 GALLONS	10 GALLONS	100 GALLONS
1	12.8 fl oz	0.294 fl oz	0.28	0.294	1.469	2.938	29.38
	16.0 fl oz	0.367 fl oz	0.35	0.367	1.837	3.673	36.73
	25.6 fl oz	0.588 fl oz	0.56	0.588	2.938	5.877	58.77
2	12.8 fl oz	0.294 fl oz	0.28	0.147	0.735	1.469	14.69
	16.0 fl oz	0.367 fl oz	0.35	0.184	0.918	1.837	18.37
	25.6 fl oz	0.588 fl oz	0.56	0.294	1.469	2.938	29.38
3	12.8 fl oz	0.294 fl oz	0.28	0.098	0.490	0.979	9.79
	16.0 fl oz	0.367 fl oz	0.35	0.122	0.612	1.224	12.24
	25.6 fl oz	0.588 fl oz	0.56	0.196	0.979	1.959	19.59
4	12.8 fl oz	0.294 fl oz	0.28	0.073	0.367	0.735	7.35
	16.0 fl oz	0.367 fl oz	0.35	0.092	0.459	0.918	9.18
	25.6 fl oz	0.588 fl oz	0.56	0.147	0.735	1.469	14.69
5	12.8 fl oz	0.294 fl oz	0.28	0.059	0.294	0.588	5.88
	16.0 fl oz	0.367 fl oz	0.35	0.073	0.367	0.735	7.35
	25.6 fl oz	0.588 fl oz	0.56	0.118	0.588	1.175	11.75
10	12.8 fl oz	0.294 fl oz	0.28	0.029	0.147	0.294	2.94
	16.0 fl oz	0.367 fl oz	0.35	0.037	0.184	0.367	3.67
	25.6 fl oz	0.588 fl oz	0.56	0.059	0.294	0.588	5.88

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides above. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer Environmental Science Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Environmental Science Emergency Response Telephone No. is 1-800-334-7577 or contact Chemtrec at 1-800-424-9300.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Handling: Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available, or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Rigid non-refillable containers with capacities greater than 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two times.

Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of liability before using this product.

If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience LP. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP DISCLAIMS ANY liability whatsoever for special, incidental or consequential damages, resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPSCIENCE LP'S ELECTION, THE REPLACEMENT OF PRODUCT.

NET CONTENTS: 8 fl oz, 1 pt, 1 Gal, 5 Gal, 250 Gal

PRODUCED FOR



Bayer Environmental Science

A Division of Bayer CropScience LP
2 T. W. Alexander Drive
P.O. Box 12014
Research Triangle Park, NC 27709

12ESP703 SC INSECTICIDE (MASTER) 11/12/2014